SSIC

Network of Infrastructure

SSIC background and objectives

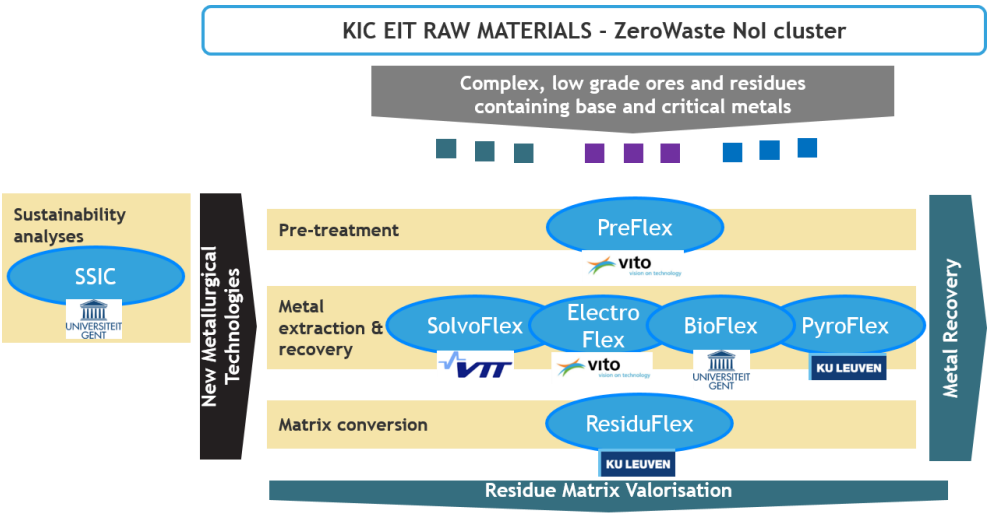
The **SSIC** aims at **supporting and facilitating sustainable technological development and educational activities** by making use of the sustainability assessment toolbox

The Network has gathered partners with **complementary expertise** and is therefore the **central contact point** for industry and technology developers when it comes to questions regarding **sustainability analysis in different sectors**;

- from resource extraction to product design and recycling
- from urban mining to green chemistry
- from separation techniques to policy support
- from nanotechnology to metallurgy
- ...

Service delivery towards industry, technology developers and policy makers within and outside the **EIT Raw Materials**

SSIC Integration into The ZeroWaste NoI Framework



The SSIC partnership

*S*ustainability *S*upport and *I*nformation *C*entre service delivery

"**Exploration and Raw Materials Resource Assessment**": data management of raw material supplies, monitoring worldwide supply and demand evolutions, assessing criticality of raw materials, etc.

"**Mining in Challenging Environments**": environmental and economic cost benefit and risk assessments, identifying social hotspots in foreign supply chains, etc.

"**Increased Resource Efficiency in Mineral and Metallurgical processes**": material flow analysis (MFA), applying thermodynamic models and efficiency assessments on processes and supply chains, etc.

"**Recycling and Value Chain Optimisation for End-of-Life (EoL) Products**": recyclability benefits, waste management scenario's through Life Cycle Assessment (LCA) and Life Cycle Costing (LCC), developing EoL criteria, calculating critical raw materials retained in the EU economy, etc.

"**Substitution of Critical and Toxic Materials in Products and for Optimised Performance**": toxicity assessments, upscaling and learning calculations, Environmentally Extended Input-Output Analysis (EEIOA)

"**Design of Products and Services for the Circular Economy**": economic analysis (of profitability, job creation, etc.) of new business models, eco-design, developing support tools, stimulating industrial symbiosis systems through flow analysis, etc.

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